NAME OF WORK : Package No-11 1.Providing Children playing equipments and gym equipments at Allalasandra Lake in ward No.04 of Yelahanka Division 2.Providing Children playing equipments and gym equipments in ward No.02,03 and 04 Yelahanka Division 3.Providing Grill Fencing to Selected parks in Ward No.02, 03 & 04 of Yelahanka Division 4.Providing Grill Fencing and Construction of Badminton court at Allalasandra Lake in Ward No.04 of Yelahanka Division 5.Providing Grill Fencing at Someshwara Hill lake in Ward No.03 of Yelahanka Division

Detailed Measurements

Item No.	Description	No's	LENGTH	WIDTH	DEPTH	QUANTITY	UNIT	RATE	AMOUNT
4	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. complete as per specifications and directions of the Engineer in charge.								
	Vide premeasurement page no. 04 to 06					**152.15**	**Cum**	**5563.25**	**846459.06**
8	Dismantling of barbed wire fencing / wire mesh fencing including posts, foundation concrete, back filling of pit by manual means including disposal of dismantled material with all lifts and stacking serviceable material and unserviceable material separately complete as per specifications. MORTH Specification. complete as per specifications and directions of the Engineer in charge.								
	Vide premeasurement page no.35 to 36					**958.20**	**m**	**71.23**	**68252.59**
9	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. complete as per specifications and directions of the Engineer in charge.								
	Vide premeasurement page no. 07 to 08					**274.82**	**Cum**	**4923.19**	**1352988.61**
20	Earthwork excavation By manual means for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. (5km lead = 57+2*1.28X5). completion of the work as per direction of engineer in charge of work.								
	Vide premeasurement page no. 01 to 03					**754.47**	**Cum**	**390.78**	**294831.49**
21	Providing and filling sand in trenches to required depth including watring ramming with all leads and lift complete as per specifications and directed by the engineer incharge at the site.completion of the work as per direction of engineer in charge of work.								
	Vide premeasurement page no. 33					**362.88**	**Cum**	**2206.05**	**800524.81**
41	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clodscomplete as per specifications and directions of the Engineer in charge.								
	Vide premeasurement page no. 32					**474.97**	**Cum**	**327.25**	**155433.54**
42	Bored / Cast-in-situ R.C.C. . piles with OPC cement design mix M20 @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 excluding reinforcement as per drawings including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Specification complete as per specifications and directions of the Engineer in charge.								
	Vide premeasurement page no. 23					**898.00**	**Cum**	**12344.06**	**11084965.88**
46	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications.complete as per specifications and directions of the Engineer in charge.								
	Vide premeasurement page no. 24					**90.26**	**Cum**	**219.45**	**19807.32**

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		824.04	Sqm	267.05	220140.04
		2864.07	Sqm	3359.87	9623681.80
		87.36	Sqm	49.51	4327.21
		65.78	Cum	8562.88	564111.28
		55.90	Tn	77457.19	2625447.22
		13867.90	Kg	120.51	1844385.53
		751.70	Cum	439.59	330438.92

Contractor

Asst. Engineer

Asst Executive Engineer

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Item No	Particulars	Unit	No	Length (m)	Breadth (Avg in m)	Depth (m)	Quantity
4	KSRRS WZ100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs. with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.45cum. in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 2100 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work						
	Measurement Recorded on						
	Kuvempu park	Cum					
	East side		t	30.45	0.75	0.15	3.43
	From gate to south side		t	30.00	0.75	0.15	3.38
			t	8.00	0.75	0.15	0.90
			t	30.45	0.75	0.15	3.43
	From North to south		t	19.30	0.75	0.15	2.17
			t	2.75	0.75	0.15	0.31
	Gate to park						
	South side		t	8.30	0.75	0.15	0.93
	East to west		t	11.80	0.75	0.15	1.33
			t	12.50	0.75	0.15	1.41
			t	11.60	0.75	0.15	1.31
			t	12.00	0.75	0.15	1.35
			t	23.80	0.75	0.15	2.68
			t	4.25	0.75	0.15	0.48
			t	4.50	0.75	0.15	0.51
	Gate to Park		t	11.30	0.75	0.15	1.27
							1.96
	West side		t	17.40	0.75	0.15	0.31
	south to notth		t	2.75	0.75	0.15	3.38
			t	30.00	0.75	0.15	0.51
			t	4.50	0.75	0.15	2.01
			t	17.90	0.75	0.15	
							2.04
	West side		t	18.10	0.75	0.15	1.45
	South to North		t	12.90	0.75	0.15	1.35
			t	12.00	0.75	0.15	1.41
			t	12.50	0.75	0.15	1.34
			t	11.90	0.75	0.15	1.35
			t	12.00	0.75	0.15	1.40
			t	12.40	0.75	0.15	1.40
			t	12.45	0.75	0.15	
							1.70
	Opp to mother dairy Main Road		t	15.10	0.75	0.15	1.31
	Main road		t	11.60	0.75	0.15	1.43
			t	12.75	0.75	0.15	1.41
			t	12.50	0.75	0.15	2.71
			t	24.10	0.75	0.15	1.38
			t	12.30	0.75	0.15	

54.69

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Project Division
Yelahanka

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tem No	Particulars	Unit	No	Length (m)	Breadth (Avg in m)	Depth (m)	Quantity
			1	12.60	0.75	0.15	1.41
			1	12.45	0.75	0.15	1.40
			1	12.25	0.75	0.15	1.38
			1	10.35	0.75	0.15	1.16
			1	10.35	0.75	0.15	1.16
			1	12.60	0.75	0.15	1.41
			1	20.20	0.75	0.15	2.27
	After road						
			1	22.30	0.75	0.15	2.51
			1	11.70	0.75	0.15	1.32
			1	11.90	0.75	0.15	1.34
			1	27.60	0.75	0.15	3.11
			1	1.30	0.75	0.15	0.15
			1	0.90	0.75	0.15	0.10
			1	4.20	0.75	0.15	0.47
			1	30.00	0.75	0.15	3.38
			1	4.70	0.75	0.15	0.53
	Valmiki park						
	North to south		1	29.70	0.75	0.15	3.34
			1	30.00	0.75	0.15	3.38
			1	13.50	0.75	0.15	1.52
			1	14.00	0.75	0.15	1.58
			1	3.70	0.75	0.15	0.42
			1	10.80	0.75	0.15	1.22
			1	18.80	0.75	0.15	2.12
			1	19.00	0.75	0.15	2.14
			1	25.60	0.75	0.15	2.88
	West to east		1	18.20	0.75	0.15	2.05
			1	21.90	0.75	0.15	2.46
			1	22.50	0.75	0.15	2.53
			1	18.45	0.75	0.15	2.08
			1	20.70	0.75	0.15	2.33
							107.80
	Badminton court						
	Piles cap		24	3.60	2.40	0.15	31.10
	Retaing wall						
	south side		1	3.41	0.80	0.15	0.41
			1	4.30	0.80	0.15	0.52
	west to east		1	4.30	0.80	0.15	0.52
			1	4.30	0.80	0.15	0.52
			1	4.30	0.80	0.15	0.52
			1	4.30	0.80	0.15	0.52
			1	3.20	0.80	0.15	0.38
			1	2.35	0.80	0.15	0.28
	Swimming pool side						
			1	3.41	0.80	0.15	0.41
			1	4.30	0.80	0.15	0.52
			1	4.30	0.80	0.15	0.52
			1	4.30	0.80	0.15	0.52

Asst.Engineer

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Yelahanka Zone

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Item No	Particulars	Unit	No	Length (m)	Breadth (Avg in m)	Depth (m)	Quantity
			1	4.30	0.80	0.15	0.52
			1	4.30	0.80	0.15	0.52
			1	3.20	0.80	0.15	0.38
			1	2.35	0.80	0.15	0.28
	Cross wall side						
			3	5.50	0.80	0.15	1.98
			3	5.50	0.80	0.15	1.98
			3	5.50	0.80	0.15	1.98
	Chuldren's Play						
	Pavani Residency		14	0.60	0.60	0.60	44.35
			1	1.20	1.20	0.45	3.02
			1	1.20	1.20	0.45	0.65
			1	1.20	0.60	0.45	0.32
			1	0.30	0.30	0.45	0.04
	Krishnadevaraya park		1	1.20	1.20	0.45	0.65
			10	0.60	0.60	0.45	1.62
			2	0.45	0.45	0.45	0.18
			1	1.20	1.20	0.45	0.65
	Onake obavva park		15	0.60	0.60	0.45	2.43
			2	0.90	0.90	0.45	0.73
			1	1.20	0.60	0.45	0.32
			1	0.30	0.30	0.30	0.03
	Sardharvallabhai patel park		10	0.60	0.60	0.45	1.62
			1	0.45	0.45	0.30	0.06
			1	1.00	1.00	0.45	0.45
			1	1.20	1.20	0.45	0.65
			1	0.90	0.90	0.45	0.36
	Allalasandhra lake childerns play-1		12	0.60	0.60	0.45	1.94
			1	1.20	1.20	0.45	0.65
			1	1.20	0.60	0.45	0.32
			1	0.45	0.45	0.45	0.09
			1	0.90	0.60	0.45	0.24
			1	0.90	0.90	0.45	0.36
	Allalasandhra lake childerns play-2		13	0.60	0.60	0.45	2.11
			1	1.20	1.20	0.45	0.65
			1	0.90	0.90	0.45	0.36
			1	0.45	0.45	0.30	0.06
			1	0.90	0.60	0.45	0.24
	Gandhi park judicial layout		13	0.60	0.60	0.45	2.11
			1	1.20	1.20	0.45	0.65
			1	0.90	0.45	0.60	0.24
			1	0.45	0.45	0.30	0.06
			1	0.90	0.90	0.45	0.36
	Sangoli rayanna park		13	0.60	0.60	0.45	2.11
			1	1.20	1.20	0.45	0.65
			1	0.90	0.45	0.60	0.24
			1	0.45	0.45	0.30	0.06
			1	0.90	0.90	0.45	~~0.36~~
						Qty	152.15

179.82

Asst Engineer
20/10/20

Asst. Executive E
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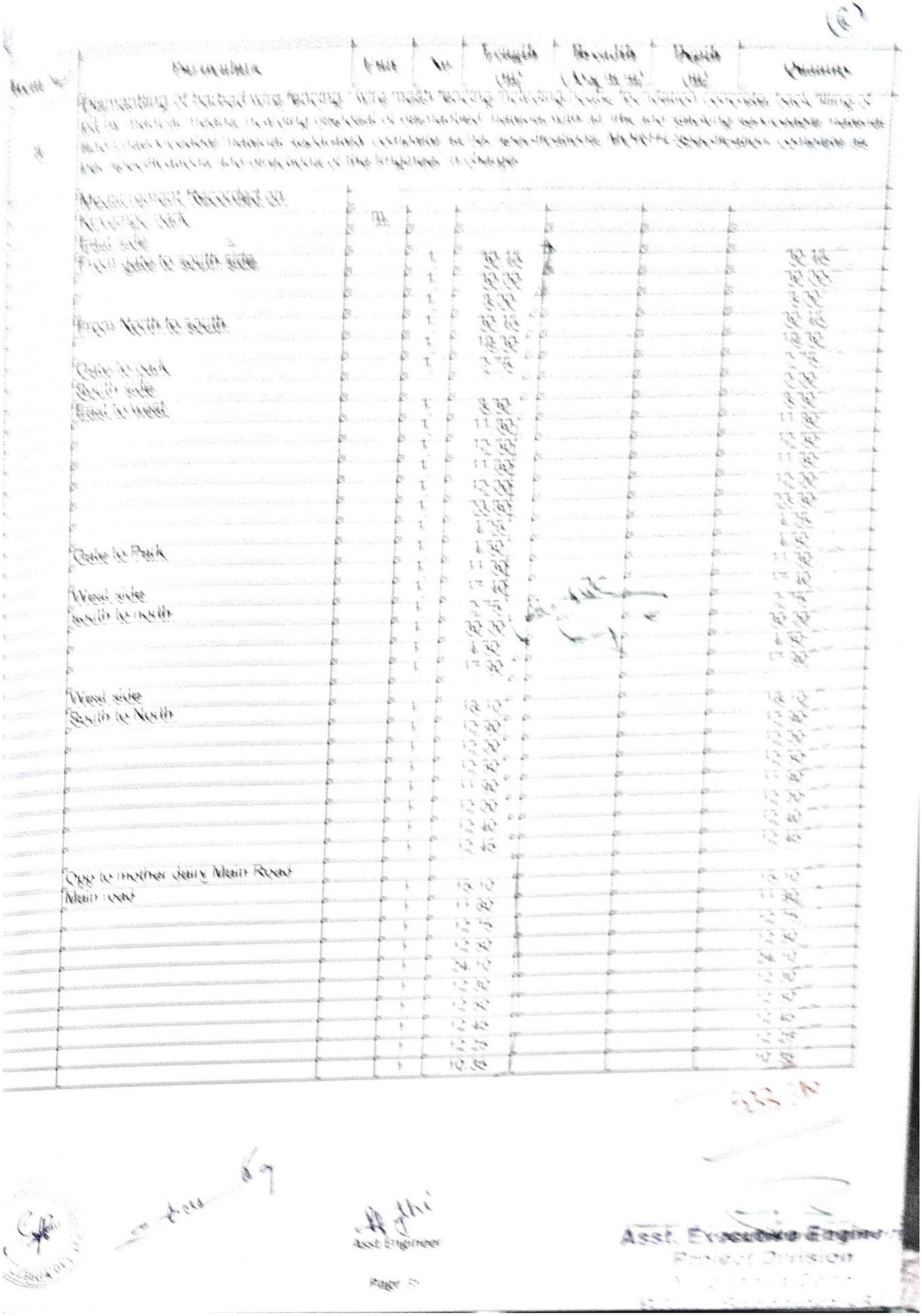

em no	Particulars	Unit	No	Length (m)	Breadth (Avg in m)	Depth (m)	Quantity
			1	10.35			10.35
			1	12.50			12.50
			1	20.20			20.20
	After road		1	22.30			22.30
			1	11.70			11.70
			1	11.90			11.90
			1	27.60			27.60
			1	1.30			1.30
			1	0.90			0.90
			1	4.20			4.20
			1	30.00			30.00
			1	4.70			4.70
	Valmiki park		1	29.70			29.70
	North to south		1	30.00			30.00
			1	13.50			13.50
			1	14.00			14.00
			1	3.70			3.70
			1	10.80			10.80
			1	18.80			18.80
			1	19.00			19.00
			1	25.60			25.60
			1	18.20			18.20
	West to east		1	21.90			21.90
			1	22.50			22.50
			1	18.45			18.45
			1	20.70			20.70
						Qty	**958.20**

Asst.Engineer
7/10/20

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em No	Particulars	Unit	No	Length (m)	Breadth (Avg in m)	Depth (m)	Quantity
9	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications. KBS 5.1.13.cement mortar 1:6 (using available stones) with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work						
	Measurement Recorded on						
	Kuvempu park	Cum					
	East side		1	30.45	0.60	0.45	8.22
	From gate to south side		1	30.00	0.60	0.45	8.10
			1	8.00	0.60	0.45	2.16
	From North to south		1	30.45	0.60	0.45	8.22
			1	19.30	0.60	0.45	5.21
	Gate to park		1	2.75	0.60	0.45	0.74
	South side						
	East to west		1	8.30	0.60	0.45	2.24
			1	11.80	0.60	0.45	3.19
			1	12.50	0.60	0.45	3.38
			1	11.60	0.60	0.45	3.13
			1	12.00	0.60	0.45	3.24
			1	23.80	0.60	0.45	6.43
			1	4.25	0.60	0.45	1.15
	Gate to Park		1	4.50	0.60	0.45	1.22
			1	11.30	0.60	0.45	3.05
	West side		1	17.40	0.60	0.45	4.70
	South to north		1	2.75	0.60	0.45	0.74
			1	30.00	0.60	0.45	8.10
			1	4.50	0.60	0.45	1.22
			1	17.90	0.60	0.45	4.83
	West side		1	18.10	0.60	0.45	4.89
	South to North		1	12.90	0.60	0.45	3.48
			1	12.00	0.60	0.45	3.24
			1	12.50	0.60	0.45	3.38
			1	11.90	0.60	0.45	3.21
			1	12.00	0.60	0.45	3.24
			1	12.40	0.60	0.45	3.35
			1	12.45	0.60	0.45	3.36
	Opp to mother dairy Main Road		1	15.10	0.60	0.60	5.44
	Main road		1	11.60	0.60	0.60	4.18
			1	12.75	0.60	0.60	4.59
			1	12.50	0.60	0.60	4.50
							126.11

Asst.Engineer

Asst. Executive Engineer

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Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Item No	Particulars	Unit	No	Length (m)	Breadth (Avg in m)	Depth (m)	Quantity
			1	24.10	0.60	0.60	8.68
			1	12.30	0.60	0.60	4.43
			1	12.50	0.60	0.60	4.50
			1	12.45	0.60	0.60	4.48
			1	12.25	0.60	0.60	4.41
			1	10.35	0.60	0.60	3.73
			1	10.35	0.60	0.60	3.73
			1	12.50	0.60	0.60	4.50
			1	20.20	0.60	0.60	7.27
	After road		1	22.30	0.60	0.45	6.02
			1	11.70	0.60	0.45	3.16
			1	11.90	0.60	0.45	3.21
			1	27.60	0.60	0.45	7.45
			1	1.30	0.60	0.45	0.35
			1	0.90	0.60	0.45	0.24
			1	4.20	0.60	0.45	1.13
			1	30.00	0.60	0.45	8.10
			1	4.70	0.60	0.45	1.27
	Valmiki park North to south		1	29.70	0.60	0.45	8.02
			1	30.00	0.60	0.45	8.10
			1	13.50	0.60	0.45	3.65
			1	14.00	0.60	0.45	3.78
			1	3.70	0.60	0.45	1.00
			1	10.80	0.60	0.45	2.92
			1	18.80	0.60	0.45	5.08
			1	19.00	0.60	0.45	5.13
			1	25.60	0.60	0.45	6.91
			1	18.20	0.60	0.45	4.91
	West to east		1	21.90	0.60	0.45	5.91
			1	22.50	0.60	0.45	6.08
			1	18.45	0.60	0.45	4.98
			1	20.70	0.60	0.45	5.59
						Qty	**274.82**

Asst.Engineer
2/11/20

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Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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em No	Particulars	Unit	No	Length (m)	Breadth (Avg in m)	Depth (m)	Quantity
20	KSRRB 300-1. Earthwork excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications, with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work						
	Measurement Recorded on						
	Kuvempu park	Cum					
	East side						
	From gate to south side		1	30.45	0.75	1.00	22.84
			1	30.00	0.75	1.00	22.50
			1	8.00	0.75	1.00	6.00
	From North to south		1	30.45	0.75	1.00	22.84
			1	19.30	0.75	1.00	14.48
	Gate to park		1	2.75	0.75	1.00	2.06
	South side					1.00	
	East to west		1	8.30	0.75	1.00	6.23
			1	11.80	0.75	1.00	8.85
			1	12.50	0.75	1.00	9.38
			1	11.60	0.75	1.00	8.70
			1	12.00	0.75	1.00	9.00
			1	23.80	0.75	1.00	17.85
			1	4.25	0.75	1.00	3.19
	Gate to Park		1	4.50	0.75	1.00	3.38
			1	11.30	0.75	1.00	8.48
	West side					1.00	
	south to notrh		1	17.40	0.75	1.00	13.05
			1	2.75	0.75	1.00	2.06
			1	30.00	0.75	1.00	22.50
			1	4.50	0.75	1.00	3.38
			1	17.90	0.75	1.00	13.43
						1.00	
						1.00	
	West side		1	18.10	0.75	1.00	13.58
	South to North		1	12.90	0.75	1.00	9.68
			1	12.00	0.75	1.00	9.00
			1	12.50	0.75	1.00	9.38
			1	11.90	0.75	1.00	8.93
			1	12.00	0.75	1.00	9.00
			1	12.40	0.75	1.00	9.30
			1	12.45	0.75	1.00	9.34
	Opp to mother dairy Main Road						
	Main road		1	15.10	0.75	1.00	11.33
			1	11.60	0.75	1.00	8.70
			1	12.75	0.75	1.00	9.56
			1	12.50	0.75	1.00	9.38

337.31

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Asst Engineer

Asst. Executive Engin
Project Division
Yelahanka Zone
BBMP, Bangalore - 9

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Steel Calculation Sheet

Particulars	DIA	NO		L	Total length	Unit weight	weight(kgs)
LES	16mm	40	12	20	9600	1.58	15168.00
		1	12	24.5	294	1.58	464.52
		2	12	22.5	540	1.58	853.20
		2	12	21.5	516	1.58	815.28
		1	12	20.5	246	1.58	388.68
		1	12	18.501	222.012	1.58	350.78
Rings	8mm	48	12	1.96	1128.96	0.39	440.29
		40	124	1.96	9721.6	0.39	3791.42
		1	154	1.96	301.84	0.39	117.72
		1	141	1.96	276.36	0.39	107.78
		2	134	1.96	525.28	0.39	204.86
		1	127	1.96	248.92	0.39	97.08
		2	114	1.96	446.88	0.39	174.28
Pile cap							
Cross rods	12mm	24	23	3.3	1821.6	0.89	1621.22
Main rods		24	10	5.8	1392	0.89	1238.88
	16mm						
Pedestal		24	18	3.2	1382.4	1.58	2184.19
	8mm	24	12	3.2	921.6	0.395	364.03
		48	6	2	576	0.395	227.52
Coloumns	25mm						
		4	4	6.4	102.4	3.85	394.24
	8mm	4	30	1.2	144	0.395	56.88
stirrups							
Plinth Beam							
Top And bottom	20mm	2	4	40.5	324	2.46	797.04
		2	4	40.5	324	2.46	797.04
	25mm	1	2	21.5	43	3.85	165.55
		2	2	25.5	102	3.85	392.70
		2	2	21.5	86	3.85	331.10
Rings							
	8mm	2	200	3.2	1280	0.39	499.20
		3	104	3.2	998.4	0.39	389.38
Both side	12mm	2	8	39.9	638.4	0.89	568.18
		3	4	20.69	248.28	0.89	220.97
Bath room walls							
Top	20mm	2	2	3.5	14	2.46	34.44
bottom		2	2	3.5	14	2.46	34.44
Rings	8mm	2	17	3.2	108.8	0.395	42.98
Horizantal rods	12mm	2	8	3.5	56	0.89	49.84
U bars	12mm	2	145	1	290	0.89	258.10
		3	95	1	285	0.89	253.65
							33895.46
							33.90
						Total Qty	33.90

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	Vide preceding page no. 41	42.67	Sqm	778.31	33222.18
23	Providing and laying of plain cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) in foundation, including curing complete.				
	Vide preceding page no. 41	184.32	Sqm	1313.59	242135.09
24	Supply & fixing of chainlink mesh 2mm gauge with spiral slide, monkey bar with standard barrel. Upright structural posts of height 4.2 m are to be hot dip galvanized steel with a 114 mm OD and 3 mm wall thickness of heavy duty of size 1.2m x 1.7m x 0.77 m , spiral slide of size 1.5m x 1.25m x 2.65m. The rails of monkey bar size 1.2m x 1.2m are all circular welded & fabricated from 42mm OD galvanized steel pipes, for the outer bars, 3.32 mm OD galvanized steel for the inner parallel bars with a bolted on powder coated finish. Deck of size 1.45 x 1.45 m are pressed and punched , welded and bolted powder coated to 2.2mm thickness or vinyl coated to a thickness of 4mm . Deck of size 1.45 x 1.45 m are pressed and punched , welded and bolted powder coated to 2.2mmthickness or vinyl coated to a thickness of 4mm. Deck, step, platform ,rails, baffle shall be all circular welded. Inclined ramps of size 1.52m x 0.65m , stair case of size 1.5m x 0.77m are fabricated from solid 2mm perforated with punched steel timber checker , steps walk of size 1 m are circular welded , fabricated from 32 mm OD galvanized castings for outer and 27mm OD galvanized steel pipe for inner bar with bolted on powder coat finish. The poles welded on to base plate made from steel with 114mm inner dia double side of size 2.2 m x 1.5m x 1.45 m panel. The rates are to be inclusive of supply and installation at site, inclusive of All Taxes and Transportation Charges, completion of the work as per direction of engineer in charge of work.				
	Vide preceding page no. 42	2.00	Each	1935258.44	3872512.88

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upply & fixing of Elliptical Cross Trainer: All products must tested and certified to meet N16630 safety standards with GS test mark. The EN16630 certificates must be issued by a eputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS nark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of ,00 public park projects in India with EN16630-GS certified products either by themselves or hrough their dealers or contractors. These EN16630 & GS Mark certificates must be clearly lisplayed on the notified certifying bodies websites as online verification is mandatory during echnical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 845 MM x 865 MM x 1710 MM . Capacity 1 person. Inclusive of All Taxes and Transportation Charges.completion of the work as per direction of engineer in charge of work.				30
Vide postmeasurement page no. 49	**1.00**	**Each**	**176859.38**	**176859.38**
Supply & fixing of Pull Down Challenger : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 2570 MM x 840 MM x 2200 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges.completion of the work as per direction of engineer in charge of work.				
Vide postmeasurement page no. 50	**1.00**	**Each**	**299146.00**	**299146.00**
Supply & fixing of Seated Chest Press : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1955 MM x 730 MM x 1955 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges.completion of the work as per direction of engineer in charge of work.				
Vide postmeasurement page no. 51	**1.00**	**Each**	**290654.69**	**290654.69**

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Item No	Particulars	Unit	No	Length (m)	Breadth (Avg in m)	Depth (m)	Quantity
1	Removing and resetting of kerb stones complete as per specifications and directions of the Engineer in charge						
	Measurement Recorded on Ambethkar park						
	East side	m	1	3.05			3.05
			1	4.40			4.40
			1	1.10			1.10
			1	1.10			1.10
			1	2.60			2.60
			1	2.10			2.10
			1	30.00			30.00
			1	13.60			13.60
	south side						
			1	19.75			19.75
			1	5.30			5.30
			1	9.00			9.00
			1	30.00			30.00
			1	1.60			1.60
			1	1.80			1.80
			1	1.55			1.55
			1	1.90			1.90
			1	11.75			11.75
			1	2.40			2.40
	GATE side		1	2.60			2.60
			1	2.60			2.60
			1	13.50			13.50
	West side		1	30.00			30.00
			1	30.00			30.00
			1	9.60			9.60
	west to east		1	30.00			30.00
			1	30.00			30.00
			1	30.00			30.00
			1	7.40			7.40

328.70

Asst Engineer

Page

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Particulars	Unit	No	Length (m)	Breadth (Avg in m)	Depth (m)	Quantity
Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:4 , edges of stones chisel dressed in courses not less than 15 cms high, bond stones at two m apart in each courses including cost of materials, labour, scaffolding, curing complete as per specifications complete as per specifications and directions of the Engineer in charge						
Measurement Recorded on 8/11/19						
Kuvempu park	Qum					
East side						
From gate to south side		1	30.45	0.45	0.45	6.17
		1	30.00	0.45	0.45	6.08
		1	8.00	0.45	0.45	1.62
From North to south		1	30.45	0.45	0.45	6.17
		1	19.30	0.45	0.45	3.91
		1	2.75	0.45	0.45	0.56
Gate to park						
South side						
East to west		1	8.30	0.45	0.45	1.68
		1	11.80	0.45	0.45	2.39
		1	12.50	0.45	0.45	2.53
		1	11.60	0.45	0.45	2.35
		1	12.00	0.45	0.45	2.43
		1	23.80	0.45	0.45	4.82
		1	4.25	0.45	0.45	0.86
Gate to Park		1	4.50	0.45	0.45	0.91
		1	11.30	0.45	0.45	2.29
		1	17.40	0.45	0.45	3.52
West side		1	2.75	0.45	0.45	0.56
south to north		1	30.00	0.45	0.45	6.08
		1	4.50	0.45	0.45	0.91
		1	17.90	0.45	0.45	3.62
West side						
South to North		1	18.10	0.45	0.45	3.67
		1	12.90	0.45	0.45	2.61
		1	12.00	0.45	0.45	2.43
		1	12.50	0.45	0.45	2.53
		1	11.90	0.45	0.45	2.41
		1	12.00	0.45	0.45	2.43
		1	12.40	0.45	0.45	2.51
		1	12.45	0.45	0.45	2.52
Opp to mother dairy Main Road						
Main road		1	15.10	0.45	0.45	3.06
		1	11.60	0.45	0.45	2.35
		1	12.75	0.45	0.45	2.58
		1	12.50	0.45	0.45	2.53
		1	24.10	0.45	0.45	4.88
		1	12.30	0.45	0.45	2.49

98.45

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Page

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Particulars	Unit	No	Length (m)	Breadth (Avg in m)	Depth (m)	Quantity
Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs with 20mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.43cum with compressive strength @ 28th confirming to IS:10262-1982 Reaffirmed-2005 machine mixed concrete laid in layers not exceeding 15 cms thick well compacted in foundation plinth and sills including cost of all materials, water, HOW of machinery curing complete as per specifications complete as per specifications and directions of the Engineer in charge						
Measurement Recorded on						
Description item	Cum					
Main side						
East side to South side		1	30.45	0.45	0.10	1.37
		1	30.00	0.45	0.10	1.35
		1	8.00	0.45	0.10	0.35
Engr North to South		1	30.45	0.45	0.10	1.37
		1	19.30	0.45	0.10	0.87
		1	2.75	0.45	0.10	0.12
Cross to Cross					0.10	
South side		1	8.30	0.45	0.10	0.37
East to West		1	11.80	0.45	0.10	0.53
		1	12.50	0.45	0.10	0.56
		1	11.50	0.45	0.10	0.52
		1	12.00	0.45	0.10	0.54
		1	23.80	0.45	0.10	1.07
		1	4.25	0.45	0.10	0.19
Cross to Cross		1	4.50	0.45	0.10	0.20
		1	11.30	0.45	0.10	0.51
		1	17.40	0.45	0.10	0.78
West side		1	2.75	0.45	0.10	0.12
South to North		1	30.00	0.45	0.10	1.35
		1	4.50	0.45	0.10	0.20
		1	17.90	0.45	0.10	0.81
					0.10	
West side		1	18.10	0.45	0.10	0.81
South to North		1	12.90	0.45	0.10	0.58
		1	12.00	0.45	0.10	0.54
		1	12.50	0.45	0.10	0.56
		1	11.90	0.45	0.10	0.54
		1	12.00	0.45	0.10	0.54
		1	12.40	0.45	0.10	0.56
		1	12.45	0.45	0.10	0.56
Cross to mother Dairy Main Road						
Main road		1	15.10	0.45	0.10	0.68
		1	11.50	0.45	0.10	0.52
		1	12.75	0.45	0.10	0.57
		1	12.50	0.45	0.10	0.56
		1	24.10	0.45	0.10	1.08
		1	12.30	0.45	0.10	0.55
		1	12.50	0.45	0.10	0.56
						22.44

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Yelahanka Zone
BBMP, Bangalore - 92

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Item No	Particulars	Unit	No	Length (m)	Breadth (Avg in m)	Depth (m)	Quantity
14	Fabricating providing and erecting in position of MS Hot Dip galvanized sq hallow poles of 132 x132 heavy gauge length 3000mm with MS Hot Dip galvanized grill work as per approved design and drawing of chief architect using 12 x75mm galvanized flat for airound frame and 20 x 20mm galvanized forged ornamental arrow head in top and buttom the work is inclusive of throughing flat square rods placing welding all the joints including griding finishing 2 coats of anticorrossive paint over one coat of metal primer the rate is inclusive of all materials all items of work cost painting welding cutting griding with lead and lift as per specifications including loading and unloading with cost and conveyance of all materials labour machinery and incidental charges for the successful completion of the work as per direction of engineer in charge of work						
	Measurement Recorded on						
	Kuvempu park	Sqm					
	East side						
	From gate to south side		1	30.45		2.25	68.51
			1	30.00		2.25	67.50
			1	8.00		2.25	18.00
	From North to south		1	30.45		2.25	68.51
			1	19.30		2.25	43.43
	Gate to park		1	2.75		2.25	6.19
	South side					2.25	0.00
	East to west		1	8.30		2.25	18.68
			1	11.80		2.25	26.55
			1	12.50		2.25	28.13
			1	11.60		2.25	26.10
			1	12.00		2.25	27.00
			1	23.80		2.25	53.55
			1	4.25		2.25	9.56
	Gate to Park		1	4.50		2.25	10.13
			1	11.30		2.25	25.43
	West side		1	17.40		2.25	39.15
	south to north		1	2.75		2.25	6.19
			1	30.00		2.25	67.50
			1	4.50		2.25	10.13
			1	17.90		2.25	40.28
	West side						
	South to North		1	18.10		2.25	40.73
			1	12.90		2.25	29.03
			1	12.00		2.25	27.00
			1	12.50		2.25	28.13
			1	11.90		2.25	26.78
			1	12.00		2.25	27.00
			1	12.40		2.25	27.90
			1	12.45		2.25	28.01
	Opp to mother dairy Main Road						
	Main road		1	15.10		2.25	33.98
			1	11.60		2.25	26.10
			1	12.75		2.25	28.69
			1	12.50		2.25	28.13
							1011.54

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BBMP, Bangalore - 92

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Particulars	Unit	No	Length (m)	Breadth (Avg in m)	Depth (m)	Quantity
Fabricating, providing and erecting in position Hot dip galvanized Gate. Using 72x72x4 8 mm Sq. G I Pipe Frame with top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanized sq.rod for verticals at 150mm c/c , as shown in the drawing including providing hot do galvanized forged ornamental design in between rods and heads at top, middle and bottom. Intermediate supports of 75x12mm and 50x6mm arch bent to hot dip galvanized flats The work is inclusive of throughing GI, Flat GI Sqm. rods, placing, welding all the joints including grinding, finishing metal patty, painting two coats enamel painting. The rate is inclusive of all materials Like GI Sq. GI Pipe, GI Forged designs etc., heavy duty hinges are made out of 75mm sold sq. block assembled with 20mm du bearing in three places for each flop. Heavy duty locking arrangement of low places including cost of labour, painting, erection charges using hoist pulley cranes, with all lead and lift, loading, trasportation, unloading, scaffolding charges and all other.completion of the work as per direction of engineer in charge of work.						
Measurement Recorded on						
Kuvempu park	Sqm	1	4.25		2.65	11.26
		1	2.70		2.65	7.16
Opp to mother dairy Main Road		1	4.85		2.70	13.10
Valmiki park		1	3.70		2.70	9.99
					Qty	**41.50**

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18/12/2020

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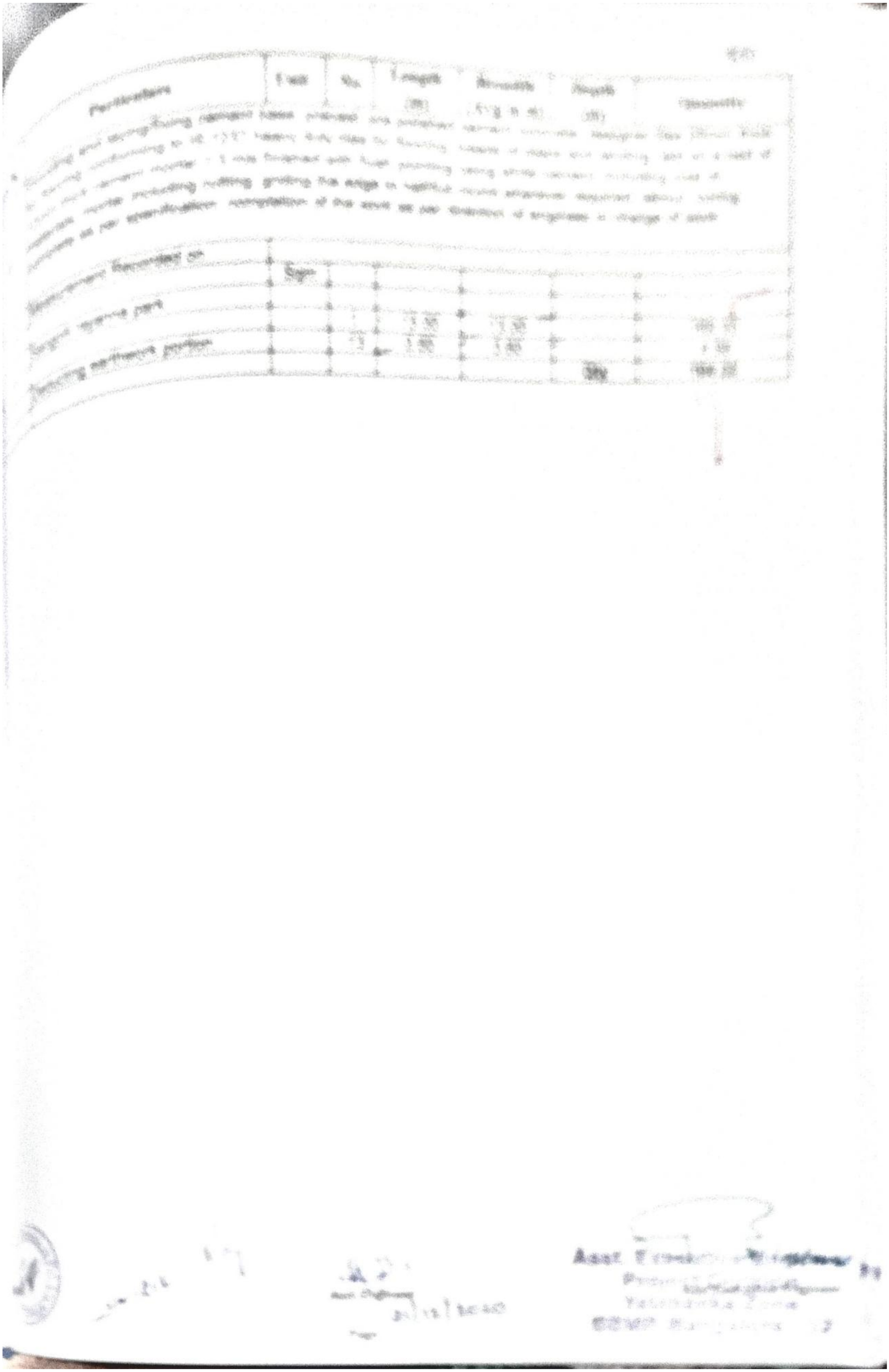

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